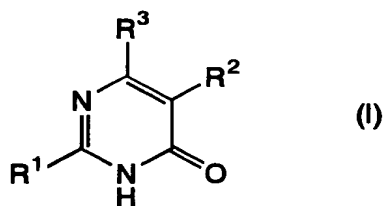


## ABSTRACT

A pyrimidone derivative represented by formula (I) or a salts thereof:



wherein R<sup>1</sup> represents an alkyl group, an alkenyl group, an alkynyl group, a cycloalkyl group, an aryl group and the like; R<sup>2</sup> represents a hydrogen atom, hydroxyl group, an alkyl group, an alkenyl group and the like, R<sup>3</sup> represents a pyridyl group, and a medicament comprising said derivative or a salt thereof as an active ingredient which is used for preventive and/or therapeutic treatment of a disease caused by tau protein kinase 1 hyperactivity such as Alzheimer disease.



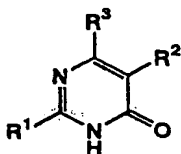
## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>7</sup> : C07D 401/04, 409/14, 401/14, A61K 31/506		A1	(11) International Publication Number: <b>WO 00/18758</b> (43) International Publication Date: 6 April 2000 (06.04.00)
(21) International Application Number: PCT/JP99/05224 (22) International Filing Date: 24 September 1999 (24.09.99) (30) Priority Data: 10/271277 25 September 1998 (25.09.98) JP 10/305266 27 October 1998 (27.10.98) JP (71) Applicant (for all designated States except US): MITSUBISHI CHEMICAL CORPORATION [JP/JP]; 5-2, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-0005 (JP). (72) Inventors; and (75) Inventors/Applicants (for US only): WATANABE, Kazu- toshi [JP/JP]; Mitsubishi Chemical Corporation, Yoko- hama Research Center, 1000, Kamoshida-cho, Aoba-ku, Yoko- hama-shi, Kanagawa 227-8502 (JP). ANDO, Ryoichi [JP/JP]; Mitsubishi Chemical Corporation, Yokohama Re- search Center, 1000, Kamoshida-cho, Aoba-ku, Yoko- hama-shi, Kanagawa 227-8502 (JP). SAITO, Ken-ichi [JP/JP]; Mitsubishi Chemical Corporation, Yokohama Re- search Center, 1000, Kamoshida-cho, Aoba-ku, Yoko- hama-shi, Kanagawa 227-8502 (JP). KAWAMOTO, Rie [JP/JP]; Mitsubishi Chemical Corporation, Yokohama Re- search Center, 1000, Kamoshida-cho, Aoba-ku, Yoko- hama-shi, Kanagawa 227-8502 (JP). SHODA, Aya [JP/JP];		Mitsubishi Chemical Corporation, Yokohama Research Cen- ter, 1000, Kamoshida-cho, Aoba-ku, Yokohama-shi, Kana- gawa 227-8502 (JP). (74) Agents: IMAMURA, Masazumi et al.; KRF Building, 5th floor, 5-5, Kyobashi 1-chome, Chuo-ku, Tokyo 104-0031 (JP). (81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).	

Published

With international search report.

(54) Title: PYRIMIDONE DERIVATIVES



(I)

## (57) Abstract

A pyrimidone derivative represented by formula (I) or a salts thereof: wherein R<sup>1</sup> represents an alkyl group, an alkenyl group, an alkynyl group, a cycloalkyl group, an aryl group and the like; R<sup>2</sup> represents a hydrogen atom, hydroxyl group, an alkyl group, an alkenyl group and the like, R<sup>3</sup> represents a pyridyl group, and a medicament comprising said derivative or a salt thereof as an active ingredient which is used for preventive and/or therapeutic treatment of a disease caused by tau protein kinase-1 hyperactivity such as Alzheimer disease.